



DECLARATION UNDER 37 C.F.R. §1.131(a)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Gyu-Yeong SON et al.

Serial No.: 09/210,472

Confirmation No. 5435

Filed: December 14, 1998

Group Art Unit: 2615

Examiner: THAI Q. TRAN

For: RESERVED PROGRAM RECORD SETTING METHOD AND APPARATUS FOR  
A PROGRAM PREVIEW

Declaration Under Rule 131(a)

RECEIVED

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

OCT 02 2003  
Technology Center 2600

Dear Sir:

We, Gyu-Yeong SON and Jin-Hwi KIM, the Applicants in the above-identified patent application declare as follows:

1. On Sep. 26, 1997, we signed an invention disclosure form disclosing the invention recited in the above-identified patent application.
2. A copy of the invention disclosure form, along with a statement that the translation of the invention disclosure form is accurate, is attached hereto.
3. On October 2, 1997, this invention disclosure form was forwarded to the Korean Patent firm of YOONES & CO., to be prepared and filed as a Korean Patent Application. A date stamp of receipt is shown on the invention disclosure form attached hereto.
4. On December 13, 1997, we filed Korean Patent Application No. 1997-68542 in the Korean Industrial Property Office. A certified copy of the Korean Patent Application No. 1997-68542 was filed in the United States Patent Office, and was acknowledged in the Office Action mailed July 10, 2003.
5. An English translated copy of the certified priority document is attached hereto, along with a statement that the translation of the certified copy is accurate.

SERIAL NO. 000000,472

DOCKET NO. 1399.1001/JGM

The Declarants further state that the above statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statement may jeopardize the validity of this application or any patent resulting therefrom.

By: GyuYeong Son  
Gyu-Yeong SON

Date: Sep. 23, 2003

By: Jim Hwi Kim  
Jin-Hwi KIM

Date: Sep. 29, 2003

SAMSUNG

삼성전자

42P 4.8~ 이리니

발명 부서	입안	심사	결정	간이 발명신고서 (Idea 발상회용임) 당사의 직무발명보상 규정 제 4조 및 제2 장 각조에 따라 본 발명(고안)에 대하여 특허를 받을 수 있는 권리를 양도합니다.	특허 부서	입안	심사	결정	
			2 兀						
	1	1	9/26			9/27	9/29	9/29	

발명의 명칭		예고함을 이용한 예약등록 방법 (ONE-TOUCH)					
작성일	1997. 9. 26.	적용제품명	<input type="checkbox"/> 적용증( ) <input type="checkbox"/> 예정( ) <input checked="" type="checkbox"/> 미적용				
기술	<input checked="" type="checkbox"/> 회로 <input type="checkbox"/> 기구	해외출원	<input type="checkbox"/> 필요(사유: ) <input type="checkbox"/> 불필요				
발명자(한자이름)	소 속	주 소	주민등록번호	전화 번호			
발명자(영어이름)			사 원 번 호				
김진휘	UH 사업부	서울시 강남구 테헤란동 416번	650125-1012529	033/-200			
김진휘	전송 연구실	동대문구 3-1206	891074556	-4678			
김진휘	VM 사업부	대전광역시 대덕구 416번	640801-1573711	10832			
KIM JIN HW	전송 연구실		8913 34408				
	사업부						
	연구실						
	사업부						
	연구실						
	사업부						
	연구실						

특허 관리 부서 기재	출원	<input checked="" type="checkbox"/> 특허 <input type="checkbox"/> 실용 <input type="checkbox"/> 관송	등 록	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C
	심사	<input checked="" type="checkbox"/> 청구 <input type="checkbox"/> 미청구	진급도	<input type="checkbox"/> 초진급 <input checked="" type="checkbox"/> 진급 <input type="checkbox"/> 보통
	해외	<input type="checkbox"/> YES <input type="checkbox"/> NO (출원국가: )		
	담당자의 견	추진 진행	부서CODE	CCB-A1
			제품CODE	AABA
	접수번호	CC - 9109 - 54	접수번호	(19 . . .)
	접수일자	1997. 09. 27.		공 의 사 특허사무소
	결정일자	1997. 9. 20.	담당자 :	( )
	위임일자	1997. 9. 20.	비 고 :	
	담당자	김진휘 (☎ 5952)		

## 주의사항

- IDEA 발상회 실시후 보완 필요내용을 보완하여 부서장 결재후 특허부서로 송부.
- 주소를 회사주소로 하기를 원할 경우 주소란을 공란으로 비워두시기 바랍니다.

디지털 미디어 본부

# 1. 종래기술 설명

1. 도면 - 가능한 기존의 도면을 별첨으로 대치

참조 KBPS 타임 : 토요일 예약신청서

(아래 항목까지의

key 항목을 참조 하여  
생성한다.)

시간	
방송사	06:00 영어 학습
KBS1	
HBC	
SBS	
...	
시간	토요일

← 코드가 이복합에 있어  
토요일이 예약된

## 2. 도면에 대한 설명

## 3. 종래기술의 문제점

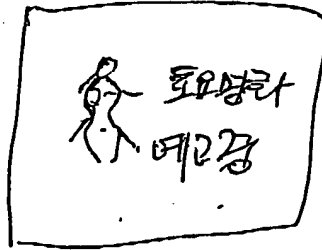
예고방송을 보고 예약등록 신청이 많고 신청하려면  
예약당락을 기다려서 신청하여야 함.

## 4. 보완 필요내용( IDEA 발상회시 특허담당자 또는 사무소담당자 요구사항을 기입할것)

## 11. 발명(고안)의 설명

1. 발명(고안)의 구성(도면) - 가능하면 기작성된 도면을 별첨할 것

기 - 화면



이때 예약설정 key 동작한  
으로 예약 설정 완료.

2. 발명에 대한 설명

예고 발송금 된다는 (동작하고 싶은) 발송/전 해 단위의  
key 동작으로 예고 발송의 발송 code를 발송하여  
자동으로 예약이 설정하게 한다.

3. 본발명의 목적 및/또는 효과

단위의 key 동작으로 예고 발송금의 발송을 예약설정  
성능하고 본 발송시 예약능력을 실행한다.

4. 보완 필요내용(IDEA 발상회시 특허담당자 또는 사무소담당자 요구사항을 기입할 것)

현재 예고발송금 예고 발송에 대한 code 또는 발송되지  
않다 만약 예고 발송금 code가 날라온다면 즉시 실행  
능하고 아주 유용한 기능이다 판단됨.

IN THE MATTER OF  
INVENTION DISCLOSURE FORM

I, THE UNDERSIGNED, HEREBY DECLARE:  
THAT I AM CONVERSANT WITH BOTH THE KOREAN AND THE ENGLISH  
LANGUAGES AND

THAT I AM A COMPETENT TRANSLATOR OF THE INVENTION DISCLOSURE  
FORM AS ATTACHED HEREWTH AND

THAT THE ENGLISH TRANSLATION IS ACCURATE.

IN WITNESS WHEREOF, I SET MY HAND HERETO

THIS 29<sup>TH</sup> DAY OF SEPTEMBER 2003

BY 01 K<sub>2</sub> 32  
SANG CHEOL LEE

SAMSUNG

Invention department	Proposed by	Examined by:	Decided by	Invention Disclosure form (prepared for the idea meeting, the rights of the invention to be patented is handed over with respect to the present invention(utility model) based on Articles 4 and 2 of the official invention compensation regulation of the company)	Patent department	Proposed by	Examined by:	Decided by
			(Signature)			(Signature)	(Signature)	
			on Sep. 26			On Sep. 27	On Sep. 29	On Sep. 29
Title of the invention		reserved program record setting using an advance notice broadcasting(ONE TOUCH)						
Date Prepared	Sep. 26, 1997		Products applied	The invention is applied to ( ), The invention will be applied to ( ), <input checked="" type="checkbox"/> The invention is not applied to a product.				
Technology field	<input checked="" type="checkbox"/> Circuit Appliance		Filing a patent application in foreign countries	necessary (grounds : ) not necessary				
Inventor (in Chinese)	Department		Address		Resident registration No.		TEL.	
Inventor(in English)					Staff number			
SON, Gyu Yeong	UM department special research room		Dongnam Apt. 3-1206, Maetan 4-dong, Paldal-ku, Suwon city		650105-1019529 89107426		0331-200-4678	
KIM, Jin Hwi	UM department special research room		Maetan 416, Paldal-ku, Suwon city		640801-1573311 89133448		5832	
Patent Department	Filing	<input checked="" type="checkbox"/> patent <input type="checkbox"/> utility model <input type="checkbox"/> return			Class	A <input checked="" type="checkbox"/> B    C		
	Request for Examination	<input checked="" type="checkbox"/> Yes No			Urgent degree	Very urgent, <input checked="" type="checkbox"/> Urgent not urgent		
	Application in foreign countries	Yes (States: ) No						
	Comment by staff in charge	Patent application is recommended				Department code	CCB-A 1	
	Receipt No	CC-9709-54				Product code	AABA	
	Receipt date	Sep. 27, 1997				Patent Attorney	Receipt No.	
	Decision date	Sep. 30, 1997					YOONES & CO.	
	Entrusted date	Sep. 30, 1997					Person in charge:	
	Staff in charge	KIM, Young Chul (TEL 5952)					Note.	

(Digital media part)

## I. Description of the prior art

1. Drawings – It is needed to substitute the existing drawings with attachments.  
KBPS screen: When setting a record of the reserved Saturday movie, the number of the key operations is at least 5 times.

Time	
Name of broadcasting service company	0600: English study
KBS1	
MBC	
SBS	
	<u>12:10: Saturday movie</u>

←(When the cursor is placed at the above position, the Saturday movie is reserved)

## 2. Description of the drawings

### 3. Problems of the prior art

There is no a function for setting a record of the reserved program when watching the reservation program. Currently, it is needed to perform multiple steps for setting a record of the reserved program.

4. The information which needs a supplement(It is needed to input a demand of Patent management staff or patent office during IDEA meeting)



## **II. Description of the invention (utility model)**

1. Construction(drawings) of the invention(utility model) – If possible, it is recommended to attach the drawings previously made.

TV - screen

The program that a Saturday movie program is coming is on air.

In the above state, the reservation is completed based on one time reservation key operation.

2. During the reservation broadcasting program, if there is a desired program, it is possible to analyze a broadcasting code of a reservation programs by one time key operation for thereby automatically setting a record of a reserved program.

3. Purpose and/or effects of the present invention

A reserved program record setting is performed by one time key operation with respect to the program which is on air.

4. The information which needs a supplement(it is needed to input a demand of Patent management staff or patent office during IDEA meeting)

In the current reservation broadcasting system, the code concerning the reservation broadcasting is not transmitted, but if a certain code is inputted during the reservation broadcasting, the present invention may be actually adapted. It is judged that the present invention is very adaptable function.

IN THE MATTER OF  
KOREAN PATENT APPLICATION  
UNDER SERIAL NO. 1997-68542.

I, THE UNDERSIGNED, HEREBY DECLARE:  
THAT I AM CONVERSANT WITH BOTH THE KOREAN AND THE ENGLISH  
LANGUAGES AND

THAT I AM A COMPETENT TRANSLATOR OF THE APPLICATION PAPERS  
THE PARTICULARS OF WHICH ARE SET FORTH BELOW:

KOREAN PATENT APPLICATION UNDER  
SERIAL NO.: 1997-68542

FILED ON: DECEMBER 13, 1997

IN THE NAME OF SAMSUNG ELECTRONICS CO.,  
LTD.

FOR: METHOD TO SET RESERVATION RECORD BY  
USING PREVIEW-BROAD CASTING

IN WITNESS WHEREOF, I SET MY HAND HERETO

THIS 29<sup>TH</sup> DAY OF SEPTEMBER 2003

BY 01/15/03  
SANG CHEOL LEE

[Translation]

**PATENT APPLICATION**

To: Director General

The Korean Industrial Property Office

Filed on December 13, 1997

Title of the Invention: METHOD TO SET RESERVATION RECORD BY USING  
PREVIEW-BROAD CASTING

Applicant: Name: Samsung Electronics Co., Ltd.

Representative : Jong Yong YOON

Applicant's code : 14001979

Category : legal entity established pursuant to Korean Commercial Law

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Nationality : Korea

Attorney: Name: Eui Seoup YOON

Attorney Reg. No.: H351

Telephone No.: 02-564-7734

Postal code : 135-080

Address : 823-24 Yeoksam-dong, Kangnam-ku, Seoul, Korea

Inventor: Name: SON, Gyu Yeong

Resident registration No.: 650105-1019529

Postal code: 442-374

Address: 3-1206 Dongnam Apt., Maetan 4 dong, Paldal-ku Suwon city,  
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Nationality: KR

Inventor: Name: KIM, Jin Hwi

Resident registration No.: 640801-1573311

Postal code : 442-373

Address : 416 Maetan 3-dong, Paldal-ku, Suwon city, Kyungki do

Request for Examination: YES

This application is hereby filed pursuant to Article 42 of the Patent Law and a request  
for examination is filed pursuant to Article 60 of the Patent Law.

This 13<sup>th</sup> day of December 1997

/S/ Attorney: Eui Seoup YOON

Encl.

[ABSTRACT]

[Abstract]

The reserved program setting method using an alred reserved program has an effect for simply and quickly setting a record of a reserved program based  
5 on an automatic reserved recording method by activating a reserved program storing key one time when watching an advance notice program, not a main program.

The reserved program record setting method using an advance notice broadcasting according to the present invention includes the steps of confirming  
10 whether there is an advance notice broadcasting on a television screen which is to be reservation-recorded, a step in which a reserved program is stored using a reserved program storing key when a desired reservation program is broadcasted, and a step for completing a reservation record by turning off a video caste tape recorder(VCR).

15

[Representative drawing]

Figure 3

[Detailed description of the invention]

[Objects of the invention]

[Technical field of the invention, and the background of the field]

The present invention relates to a reserved program record setting method  
5 using an advance notice broadcasting, and in particular to a reserved program  
record setting method using an advance notice broadcasting in which a record  
reservation is completed by activating an advance notice broadcasting storing key  
one time when watching an advance notice broadcasting, not a main broadcasting.  
Generally, a KBPS(Korea Broadcasting Program Service) code is directed to a  
10 broadcast code transmitted to a broadcasting station. Namely, when there is a  
desired movie program or sports and broadcasting program that a viewer wants to  
watch, it is needed to reserve the program by inputting a corresponding inherent  
code determined based on each program in the case that it is impossible to watch  
the desired program due to a certain circumstance.

15 The broadcasting station is designed to output a reservation code by a  
certain amount of one week whenever a program is broadcasted for a reserved  
program record. Therefore, the viewer who has the currently commercially  
available a video cassette tape recorder(hereinafter referred to as VCR) for the  
KBPS and a television set.

20 Figure 1 is a view illustrating the construction of the conventional  
apparatus capable of setting a reserved program record.

**[SPECIFICATION]**

**[Title of the Invention]**

**Method to set reservation record by using preview-broad casting**

**5 [Brief description of the drawings]**

Figure 1 is a block diagram illustrating an apparatus for setting a record of a reserved program of the prior art and present invention;

Figure 2 is a flow chart of a conventional reserved program record setting method; and

**10 Figures 3A and 3B are flow charts of a reserved program record setting method using an advance notice broadcasting according to the present invention.**

**\*Descriptions of the reference numerals concerning the major elements of the drawing\***

**15 11: tuner**

**12: controller**

**13: memory**

**14: KBPS decoder**

**15: recording unit**

As shown therein, there are provided a tuner 11 for selecting a certain inputted broadcasting signal, a controller 12 for controlling all functions such as a reserved program record setting of a VCR, an execution and key recognition, etc., a memory 13 for storing a function and program of the controller 12, a KBPS decoder 14 for analyzing a KBPS data included in the broadcasting signal among  
5 the selected broadcasting signals, and a recording unit 15 for recording the decoded broadcasting signal in a recording medium in accordance with a command of the controller 12.

In addition, as shown in Figure 2, the method and flow chart for performing  
10 a reserved program record will be described based on the KBPS apparatus.

First, when a reservation start key is inputted(S21), a broadcasting station, time, date and title of the broadcasting program are displayed on a screen by one week amount(S22). At this time, the cursor is blinked on the title of the program which is currently broadcasted(S23). The cursor is moved to the program that the  
15 viewer wants to reserve. Namely, the cursor is moved until the reservation date S24, the time S25, and the title S26 are matched. When the current program corresponds to the broadcasting which will be reserved(S27), the program is stored using the reservation storing key(S28). In the final stage, the power of the VCR is turned off(S29), and the reservation record is completed(S30).

20 However, in the conventional KBPS reservation recording method, it takes a long time due to the repeated movements of the cursor which is moved for the

reservation, and the procedure is complicated. In particular, when reserving the broadcasting program which will be broadcasted later date, it takes a lot of time for thereby causing inconvenience.

5 [Technical problems to be overcome by the present invention]

Accordingly, it is an object of the present invention to provide a reserved program record setting method using an advance notice broadcasting in which a reservation setting is completed by activating an advance notice program storing key one time when viewing an advance notice broadcasting, not a main program.

10

[Construction and operation of the invention]

To achieve the above objects, a reserved program record setting method using an advance notice broadcasting according to the present invention is implemented by the steps of checking whether there is an advanced notice  
15 broadcasting that a viewer wants to have a reserved program record, on a television screen, storing the advance notice broadcasting using an advance notice broadcasting storing key when there is an advance notice broadcasting that the viewer wants to record, and completing the reserved program record by turning off the power of the VCR.

20

The embodiments and operations of the present invention will be described with reference to the accompanying drawings.



Figure 1 is a block diagram concerning the reserved program record setting apparatus using an advance broadcasting according to the present invention, and

Figures 3A and 3B are flow charts of a reserved program record setting method using an advance notice broadcasting according to the present invention.

First, when a broadcasting signal is inputted, the broadcasting signal is tuned by the tuner 11. The KBPS 14 analyzes the KBPS data and transfers to the controller 12. At this time, when there is an advance notice broadcasting that the viewer wants to record, watching the television, it is checked whether the advance notice broadcasting is completed in a first step(S51). When the advance notice broadcasting that the viewer wants to record is being broadcasted, the broadcasting is stored using the advance notice broadcasting storing key in a second step(S52), and the advance notice record is completed by turning off the power of the VCR in a third step(S53).

However, when the advance notice broadcasting that the viewer wants to record is broadcasted, the broadcasting is directly stored using the advance notice broadcasting key of the second step, but if the current broadcasting screen is changed to another broadcasting screen before the broadcasting is stored using the advance notice broadcasting storing key or the advance notice broadcasting is ended, it is possible to record a reserved program using the conventional program by inputting using the reservation start key. Namely, in the present invention, it is

possible to implement the reservation record at all times when the broadcasting is provided.

In addition, the inherent code number of the reserved broadcasting program is stored in the memory 13 only when the power is turned off, and then  
5 the reservation record is completed. In a state that the reservation record is completed, when the current date and time are matched with the reserved date and time, the recording unit 15 automatically records the reserved program based on the instruction of the controller 12.

In conclusion, in the present invention, it is possible to simply and quickly  
10 make a reservation record in such a manner that a desired program is reserved by one time key operation for thereby automatically implementing a reservation record compared to the conventional art in which the above operation is implemented by using the input key and cursor multiple times.

15 [Effects of the invention]

In the reserved program record setting method using an advance notice broadcasting according to the present invention, it is possible to simply and quickly make a reservation record automatically by pressing the advance notice  
broadcasting storing key one time when watching the advance notice broadcasting,  
20 not the main program.

[What is claimed is]

1. In a method for setting a reservation record of a cassette tape recorder(VCR) having a Korea Broadcasting Program Service(KBPS) reservation record function, a reserved program record setting method using an advance  
5 notice broadcasting comprising the steps of:

a first step for checking whether there is an advance notice broadcasting that a user wants to make a reservation record, on a television screen;

a second step for storing the program using the advance notice broadcasting storing key when there is an advance notice broadcasting that a user  
10 wants to make a reservation record; and

a third step for completing the reservation record by turning off the power of the VCR.

2. The method of claim 1, when the advance notice broadcasting of the  
15 broadcasting that the user wants to make a reservation record of the first step is provided, the routine is proceeded to the second step, and another broadcasting is provided or the advance notice broadcasting is ended, the reservation record is made by inputting the conventional reservation start key mode.



Fig. 1

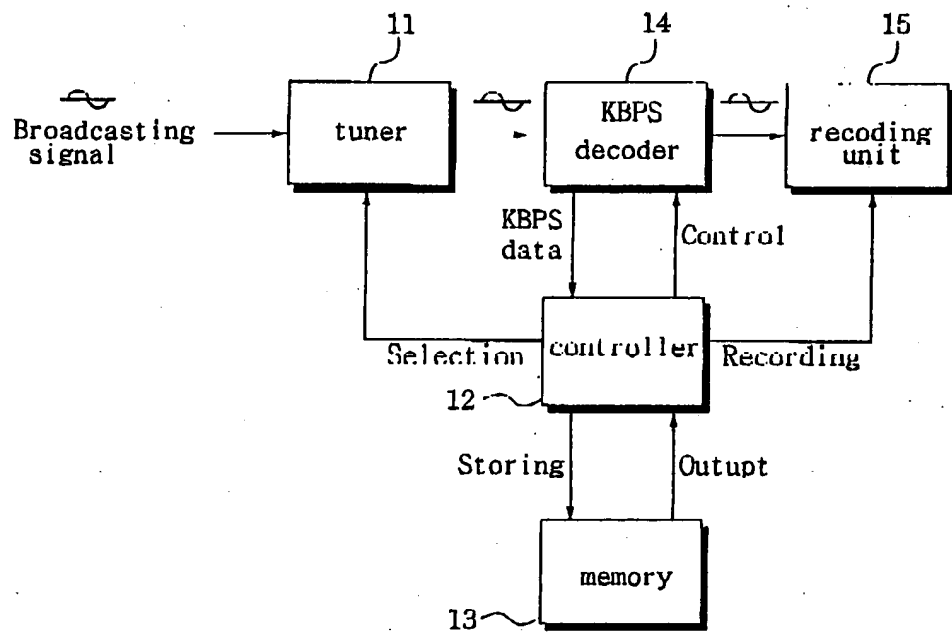
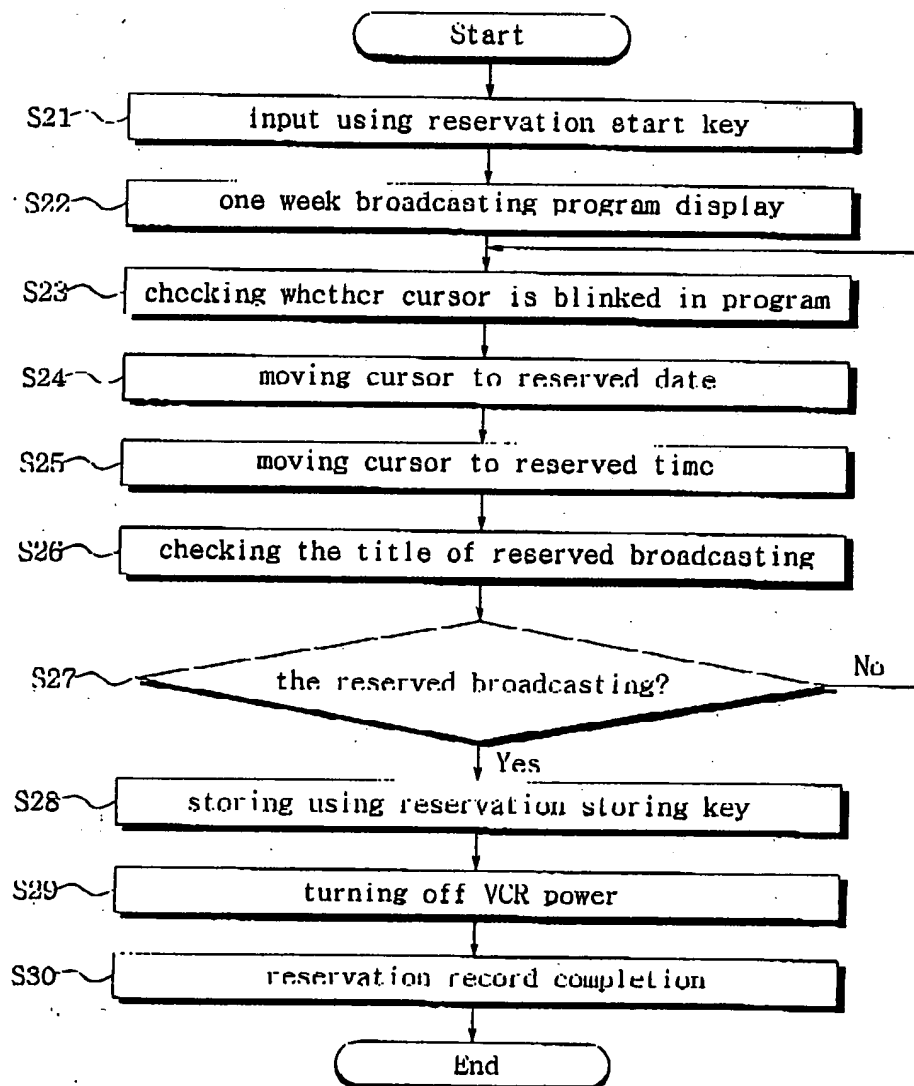




Fig. 2



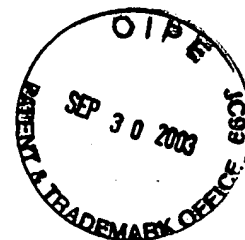


Fig. 3A

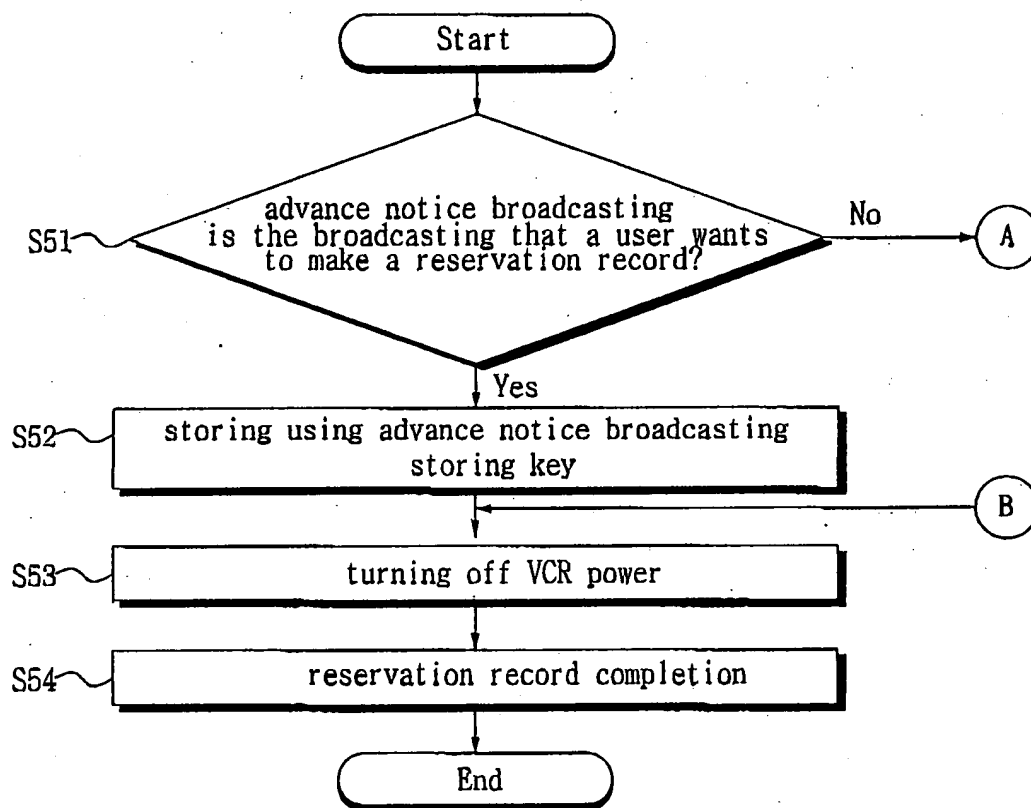




Fig. 3B

